WeConnectScience

LG Chem

CRI558M3

Description

CRI558M3, a Transparent Pre-Consumer Recycled ABS product for injection molding, contains 30% PCR resin and is designed to have the same physical properties as standard TR ABS, having good transparency and balance between the impact strength and fluidity.

Key Features

Transparency, Recycled ABS (PCR 30%)

Application

Washing Machine, Refrigerator, Electrical/Electronic Products, Miscellaneous Goods

Properties	Condition	Method	Unit	CRI558M3
Physical				
Specific Gravity	23℃	ASTM D792		1.1
Melt Flow Index	220℃, 10kg	ASTM D1238	g/10min	26.4
Mechanical				
Tensile Strength at Yield	23℃, 50mm/min, 3.2mm	ASTM D638	MPa	51
Tensile Elongation at Break	23℃, 50mm/min, 3.2mm	ASTM D638	%, (Min)	50
Flexural Strength	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	81
Flexural Modulus	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	2430
Izod Impact Strength	Notched, 6.4mm, 23℃	ASTM D256	J/m	115
Rockwell Hardness	R-Scale	ASTM D785		111
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	℃	86
Optical				
Haze		ASTM D1003	%	1.8
Luminous Transmittance	3.2mm	ASTM D1003	%	89.5

Note

Typical values can be used only for the purpose of selecting material, and there can be variation within normal tolerances for various colors.
Values given should not be interpreted as specification and not be used for designing part or tool.
All properties, except melt flow index are measured by injection molded specimens after 48 hours storage at 23℃, 50% relative humidity.

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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	℃	80 ~ 90
Drying Time	hrs	2 ~ 4
Injection Temperature	℃	200 ~ 255
Mold Temperature	℃	40 ~ 80
Screw Speed	rpm	30 ~ 60

Note

Injection Temperature & Screw Speed are only mentioned as general guidelines.
These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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